

IN THE CLAIMS:

The listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1-16. (Cancelled)

17. (Currently Amended) A transmission power system ~~that contains~~ comprising a pair of mating screws, having mating threads, ~~wherein:~~

~~the~~ an axial thread profile of ~~the~~ a first screw ~~is of the pair of mating screws~~ being defined by a counternovolute located inside of ~~the~~ a pitch diameter of the first screw, on one ~~of the flanks~~ flank of the first screw, and another counternovolute located inside the pitch diameter, on ~~the other~~ another flank of the thread; of the first screw,

~~the~~ an axial thread profile of ~~the~~ a second screw ~~is of the pair of mating~~ screws being defined by a novolute located outside of ~~the~~ a pitch diameter; of the second screw, on one flank of ~~the~~ a thread of the second screw, and

another novolute located outside of ~~the~~a pitch diameter of the second screw,
on ~~the other~~another flank of the thread of the second screw.

18. (Currently Amended) The transmission power system of Claim 17, wherein
the first screw, by means of ~~the~~a helical line defined by ~~the~~a point where the
counternovolute intersects the pitch diameter, generates the novolute profile of the
second screw.

19. (Currently Amended) The transmission power system of Claim 17, wherein
~~the~~contact between the threads is defined by a line, which begins at ~~the~~an
intersection between the pitch diameter of the first screw and ~~the~~an outermost
diameter of the second screw, continues along ~~the~~a circumference of the pitch
diameter of the first screw until it intersects with ~~the~~a line of centers.

20. (Currently Amended) The transmission power system of Claim 17, wherein
said pair of mating screws have parallel shafts.

21. (Currently Amended) The transmission power system of Claim 17, wherein,
the pair of mating screws are coplanar ~~or not~~.

22. (Currently Amended) The transmission power system of claim 17, wherein ~~the~~a helical line belonging to the first screw, which generates ~~the~~ novolute surfaces, has a larger diameter than the pitch diameter.

23. (Currently Amended) The transmission power system of Claim 17, wherein ~~the~~a helical line, belonging to the first screw which generates ~~the~~ novolute surfaces, has a smaller diameter than the pitch diameter.

24. (Currently Amended) The transmission power system of Claim 17, wherein ~~the~~a helical line belonging to the first screw, which generates the novolute, is replaced by a solid helical profile with a curve section.

25. (Currently Amended) The transmission power system of Claim 17, wherein the flanks of ~~the~~an axial profile are asymmetrical.

26. (Currently Amended) The transmission power system of Claim 17, wherein the pair of mating screws have variable thread pitches.

27. (Currently Amended) The transmission power system of Claim 17, wherein the pair of mating screws are manufactured with ~~the~~ variable thread heights throughout ~~the~~ a length of the ~~piece~~ pair of mating screws.

28. (Currently Amended) The transmission power system of Claim 17, wherein ~~the~~ a load carrying capacity of the threads is increased by increasing ~~the~~ a base height of the thread beyond ~~the~~ a height required to accommodate the first and second screw.

29. (Cancelled)